PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

TIEM ME IN TERMA HONAL SEARCHING AUTHORITY	•		
To: KIRK D. HOUSER ECKERT SEAMANS CHERIN & MELLOTT, LLC	PCT		
600 GRANT STREET, 44TH FLOOR PITTSBURGH, PA 15219	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of Mailing (day/month/year) 30 SEP 2004		
Applicant's or agent's file reference			
283359003651	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US03/41207	International filing date (day/month/year)		
A - 11	19 December 2003 (19.12.2003)		
Applicant UNION SWITCH & SIGNAL, INC.	·		
1. The applicant is hereby notified that the international search	report has been established and is transmitted herewith.		
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim			
	ormally two months from the date of transmittal of the		
Where? Directly to the International Bureau of WIPO, 1211 Geneva 20, Switzerland, Facsimile No.:	34, chemin des Colombettes		
For more detailed instructions, see the notes on the according			
 The applicant is hereby notified that no international search: Article 17(2)(a) to that effect is transmitted herewith. 	report will be established and that the declaration under		
3. With regard to the protest against payment of (an) addition	al fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been applicant's request to forward the texts of both the pro	transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.		
no decision has been made yet on the protest; the applic	ant will be notified as soon as a decision is made.		
4. Reminders			
"PPROGE WISHES W AVOID OF DUSTPORE PUBLICATION, A NOTICE OF WITHOUT	application will be published by the International Bureau. If the rawal of the international application, or of the priority claim, must d 90 bis.3, respectively, before the completion of the technical		
Within 19 months from the priority date, but only in respect of examination must be filed if the applicant wishes to postpone the er (in some Offices even later); otherwise the applicant must, within entry into the national phase before those designated Offices.	If I into the national phase smill 20 months from the existing data		
In respect of other designated Offices, the time limit of 30 months (c	or later) will apply even if no demand is filed within 10 months		
See the Annex to Form PCT/IB/301 and, for details about the applic Volume II, National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/US	Authorized officer /		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			
P.O. Box 1450	Gary Chin 1 1 000 (1		

Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)

(See notes on accompanying sheet)

Perponse to Search 11-30-04 Report Due: 11-30-04

Telephone No. (703) 308-1113



PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

28335900		FOR FURTHER ACTION	see Notific (Form PC) below.	ration of Transmittal of International Search Report ITISA/220) as well as, where applicable, item 5
Internation PCT/US0:	nal application No. 3/41207	International filing date (day/mor 19 December 2003 (19.12.2003)	th/year)	(Earliest) Priority Date (day/month/year) 20 December 2002 (20.12.2002)
Applicant UNION S	WITCH & SIGNAL, INC.			
This internapplicant	national search report has been according to Article 18. A co	n prepared by this International S py is being transmitted to the Inte	earching A	Authority and is transmitted to the Bureau.
This intern	national search report consists It is also accompanied	of a total of <u>H</u> sheets. by a copy of each prior art docu	ment cited	l in this report.
1. Basis a.	language in which it was filed,	unless otherwise indicated under t	his item.	basis of the international application in the
b.	Authority (Rule 23.1(b)).	and/or amino acid sequence disci		international application furnished to this international application, the international
	contained in the international filed together with the intern	l application in written form. ational application in computer rea	dable form	ı.
	furnished subsequently to thi			
		s Authority in computer readable f	orm.	
		uently furnished written sequence l		not go beyond the disclosure in the
			e form is i	dentical to the written sequence listing has
2.	Certain claims were found i	msearchable (See Box I).		
3. With r	Unity of invention is lacking regard to the title,	g (See Box II).		
×	the text is approved as submit	tted by the applicant.		
	the text has been established l	by this Authority to read as follows	::	
5. With r	egard to the abstract,			
	the text is approved as submit	ted by the applicant.		
\bowtie	the text has been established, may, within one month from t Authority.	according to Rule 38.2(b), by this the date of mailing of this internation	Authority a	as it appears in Box III. The applicant a report, submit comments to this
6. The fig	ture of the drawings to be publi	shed with the abstract is Figure No	o. 2	
\bowtie	as suggested by the applicant.	v	-	None of the figures
	because the applicant failed to	suggest a figure.		
	because this figure better chara			
orm PCT/ISA	1/210 (first sheet) (July 1998)			



INTERNATIONAL SEARCH REPORT

International application No.

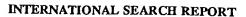
PCT/US03/41207

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

A method generates optimized traffic movement plans. A plan monitor (58) determines a first planning boundary for traffic based upon traffic conditions of a region. A plan generator (56) employs the first planning boundary and repetitively generates first traffic movement plans for the traffic. The plan generator (56) selects one of the first traffic movement plans as a first optimized traffic movement plan, and outputs the same for controlling traffic movement. The plan monitor (58) determines current traffic conditions of the region for a planning window, and updates the first planning boundary to provide a second planning boundary for the traffic based upon the current traffic conditions. The plan generator (56) employs the second planning boundary and repetitively generates second traffic movement plans for the traffic, selects one of the first and second traffic movement plans as a second optimized traffic movement plan, and outputs the same for controlling traffic movement.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)



International application No.

		P	CT/US03/41207	•
	ASSIFICATION OF SUBJECT MATTER			
US CL	: G06F 17/00 : 701/19, 117; 705/8; 246/2R, 167R			•
	to International Patent Classification (IPC) or to bo	h national classification and	A IDC	
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U.S. :	701/19, 117; 705/7, 8, 9; 246/2R, 167R, 182R	od by dassification symbol	.s <i>)</i>	
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Documentat	tion searched other than minimum documentation to	the extent that such domin	ante ara includa	i in the Golde asserbed
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Zicodome d	lata base consulted during the international search (name of data base and, when	re practicable, s	earch terms used)
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT	· · ·		·
Category *				
A,P	Citation of document, with indication, where US 2004/0010432 A1 (MATHESON et al) 15 Jan	appropriate, of the relevan	t passages	Relevant to claim No.
•		_		1-94
A,P	US 6,546,371 B1 (DONER) 08 April 2003, see to	he entire document.		1-94
Α			i	
A	A US 6,459,964 B1 (VU et al) 01 October 2002, see the entire document. 1-94			
				,
. A	US 6,304,801 B1 (DONER) 16 October 2001, sec	the entire document.		1-94
A	US 5,828,979 A (POLIVKA et al) 27 October 19	10 41		
				1-94
Α '	US 6,154,735 A (CRONE) 28 November 2000, se	e the entire document.	ļ	1-94.
A			1	À.
n l	US 6,135,396 A (WHITFIELD et al) 24 October	2000, see the entire docume	ent.	1-94
Α .	US 5,794,172 A (MATHESON et al) 11 August 1	998. figure 4	j	1-94
	,	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1-34
ļ			ŀ	•
	documents are listed in the continuation of Box C.	See patent fami	ly annex.	
* Sp	ecial categories of cited documents:	"T" later document pub	olished after the inte	mational filing date or
"A" document	defining the general state of the art which is not considered to	priority date and n	ot in conflict with th	e application but cited to
	icular relevance	/ · · · · ·	•	laimed invention cannot be
"E" carlier app date	dication or patent published on or after the international filing	considered novel o	r cannot be consider	ed to involve an inventive
"L" document	which may throw doubts on priority claim(s) or which is cited	•	ment is taken alone	
to establis	h the publication date of another citation or other special reason	"Y" document of partic considered to invol	ular relevance; the c	laimed invention cannot be when the document is
(25 specific		combined with one	or more other such	documents, such
"O" document	referring to an oral disclosure, use, exhibition or other means	_	obvious to a person	i
P* document p	published prior to the international filing date but later than the	"&" document member of	of the same patent fa	mily
Date of the ac	tual completion of the international search	Date of mailing of the int	ernational searci	report
25 June 2004 (
Vame and mai	ling address of the ISA/US	Authorized officer Gary Chin V	CUUA	
Mail :	Stop PCT, Atta: ISA/US	- 11	1. /	
	nissioner for Patents Box 1450	Gary Chin	ou G	,
Alexa	ndria, Virginia 22313-1450	Telephone No. (703) 308	-1113	
	(703) 305-3230			
rm PC I/ISA/	210 (second sheet) (July 1998)			



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INTERNATIONAL SEARCH REPORT

ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
Α .	US 5,623,413 A (MATHESON et al) 22 April 1997, figure 4.	1-94
Α .	US 5,177,684 A (HARKER et al) 05 January 1993, see the entire document.	1-94
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Form PCT/ISA/210 (second sheet) (July 1998)



NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.